

DI-9102E

Intelligent Photoelectric Smoke Detector



Description

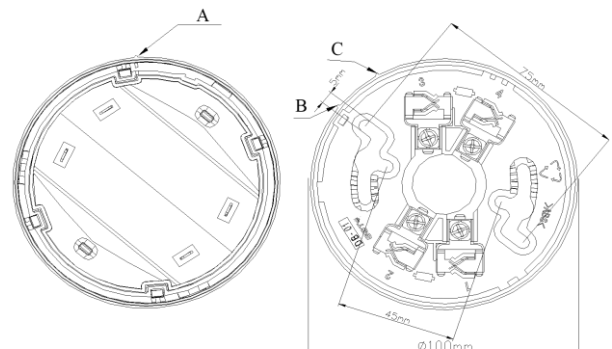
DI-9102E Intelligent Photoelectric Smoke Detector is addressable type fire detection device, build up fire alarm system together with fire alarm panel and other alarm devices. By light-scattering technology, the detector is suitable for hotel, restaurant, office building, school, bank, warehouse, library, computer room, switch room, and etc

Features and Benefits

- Electrically addressed, can be modified by programmer
- Strong environmental adaptability due to drift compensation
- Self-diagnostic, reed switch test
- Dirty chamber checking
- Fire LED allows 360° viewing
- Possible to switch off polling LED
- Remote indicator output
- Removable innovative sensing chamber, easy for maintenance
- 2 levels sensitivities programmable (Level 1 certified)
- LPCB approved at EN 54-7

Terminals and Installation Holes

Below figures show the detector bottom and terminals of the base.



There are four terminals with marks on the base.

1&3: Loop connection (non-polarized)

2: Positive terminal of remote indicator

4: Negative terminal of remote indicator

The base can be installed onto standard European embedded back box, with hole-distance 45mm to 75mm.

Recommended Cabling

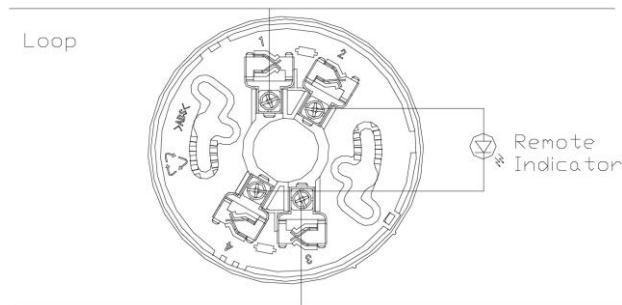
1.0mm² or above fire cable is recommended, but subject to local codes.

Application

Address can be set through P-9910B programmer, also the sensitivity. Below table shows relative codes for sensitivity levels and working modes. Factory defaults at Level 1 + Normal LED.

Parameter	Smoke Sensitivity	Polling LED Status
1	1	ON
2	2	ON
129	1	OFF
130	2	OFF

The typical wiring diagram is shown below.



The operating radius is 7.5 meters under flat ceiling below 25 meter high. Other parameters, please refer to EN 54-14 Annex A.6.4.

Certificates and Compliance

- Standards: EN 54-7
- Certifications: LPCB

Order Information

Part No.	DI-9102E
Device Name	Intelligent Photoelectric Smoke Detector
Product No.	10106287
Compatible Products	GST100 Intelligent Fire Alarm Control Panel GST200N Intelligent Fire Alarm Control Panel GST-IFP4E Intelligent Fire Alarm Control Panel GST- IFP8 Intelligent Fire Alarm Control Panel

Technical Specification

Operating Voltage	loop 24V (16V ~ 28V)
Standby Current	≤0.8mA
Alarm Current	≤1.8mA (without remote indicator) ≤3.8mA (with remote indicator)
LED Indicator	Red, Flashes in polling, and illuminates in alarm
Programming Method	Electronically programming
Code Range	1 ~ 242
Wiring	Non-polarized 2-core for loop. Polarized 2-core for remote indicator.
Sensitivity Level	Level 1: 0.070dB/m - 0.145dB/m Level 2: 0.085dB/m - 0.209dB/m
Environment Temperature	-10°C ~ 50°C
Relative Humidity	≤95%, non-condensing
Material of Enclosure	ABS
Ingress Protection Rating	IP2X, for indoor use only
Dimensions	Diameter: 100mm Height: 54.5mm (with base)
Mounting Hole Distance	45mm ~ 75mm
Weight	About 110g

Accessories and Tools



Part No. DB-01
Device Name Standard Base
Product No.: 30205764



Part No. DC-9504E
Device Name Diode Base
Product No.: 10105103



Part No. C-9314P
Device Name Remote Indicator
Product No.: 10102339



Part No. P-9910B
Device Name Handheld Programmer
Product No.: 10104894